

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the Application. Deletions are ~~struck through~~ and additions are underlined.

1. (Currently amended) A planar antenna fitted with a reflector comprising: a radiator; and a reflector of planar form whereof both side sections, arranged to the rear of and facing towards said radiator with only a prescribed separation (D), are bent towards said radiator, where  $\lambda$  is the wavelength of the central frequency of the operating frequency band, characterized in that said prescribed separation (D) of said radiator and said reflector has a range from ~~is reduced to~~ about 0.06  $\lambda$  to 0.15  $\lambda$ , and the separation between the leading edges of two side sections in said reflector and said radiator is not greater than 0.06  $\lambda$  ~~where  $\lambda$  is the wavelength of the central frequency of the operating frequency band~~.

2. (Canceled)

3. (Original) The planar antenna fitted with a reflector according to claim 1, characterized in that said radiator is a dipole, stacked dipole, biconical, loop, triangular double loop or rectangular double loop radiator.

4. (Currently amended) The planar antenna fitted with a reflector according to claim 1, characterized in that said reflector is formed whereof a front face section facing towards said radiator, and bent sections thereof are bent ~~an obtuse angle is formed between said at the two side sections in said reflector facing said radiator and said two side sections thereof are bent towards said radiator~~ of said front face section is arranged to face towards said radiator, the two side edges thereof are bent to cross almost rectangularly against said front face section of the leading edge of said bent sections are arranged.

5. (Canceled)

6. (Currently amended) A planar antenna fitted with a reflector comprising: characterized in that a reflector of planar form whereof both side sections are bent towards said radiator is arranged with a prescribed separation with respect to a radiator of planar form which has at least upper and lower sides and comprises a double loop element wherein the width of said upper and lower sides is formed wider than that of the other sides thereof; and a reflector of planar form whereof both side sections, arranged to the rear of and facing towards said radiator with only a prescribed separation (D), are bent towards said radiator, facing the surface of said radiator, whereby said prescribed separation of said radiator and said reflector can be arranged such as to be substantially adjacent up to about  $0.06 \lambda$ , where  $\lambda$  is the wavelength of the central frequency of the operating frequency band, characterized in that said prescribed separation (D) of said radiator and said reflector has a range from about  $0.06 \lambda$  to  $0.15 \lambda$ , and the separation between the leading edges of two side sections in said reflector and said radiator is not greater than  $0.06 \lambda$ .

7. (Canceled)

8. (Original) The planar antenna fitted with a reflector according to claim 6, characterized in that said radiator comprises a triangular double loop element or rectangular double loop element, the width of the upper and lower sides of said radiator being about  $0.06 \lambda$  to  $0.1 \lambda$ .

9. (Currently amended) The planar antenna fitted with a reflector according to claim 6, characterized in that said reflector is formed whereof a front face section facing towards said radiator, and bent sections thereof are bent an obtuse angle is formed between said at the two side sections in said reflector facing of said front face section is arranged to face towards said radiator and said, the two side edges sections thereof are bent towards said radiator to cross almost rectangularly against said front face section of the leading edge of said bent sections are arranged.

10. (Canceled)